

## Quiz: Remainder and Factor Theorems

## Question 1a of 15 ( 2 Rational Roots Theorem 326093 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between  $(x - 3)$  and the polynomial  $x^3 + 4x^2 + 2$ ?

	Choice	Feedback
A.	$(x - 3)$ is a factor.	
*B.	$(x - 3)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x - 3)$ is a factor.	
D.	If $(x - 3)$ isn't a factor, then $x = 3$ could be.	

## Global Incorrect Feedback

The correct answer is:  $(x - 3)$  is not a factor.

## Question 1b of 15 ( 2 Rational Roots Theorem 326094 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

**Question:**

Which of the following *best* describes the relationship between  $(x + 1)$  and the polynomial  $-3x^3 - 2x^2 + 1$ ?

	Choice	Feedback
A.	$(x + 1)$ is a factor.	
*B.	$(x + 1)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x + 1)$ is a factor.	
D.	If $(x + 1)$ isn't a factor, then $x = -1$ could be.	

**Global Incorrect Feedback**

The correct answer is:  $(x + 1)$  is not a factor.

**Question 1c of 15** ( 2 Rational Roots Theorem 326095 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:**

Which of the following *best* describes the relationship between  $(x - 2)$  and the polynomial  $2x^3 + x^2 - 3$ ?

	Choice	Feedback
A.	$(x - 2)$ is a factor.	
*B.	$(x - 2)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x - 2)$ is a factor.	
D.	If $(x - 2)$ isn't a factor,	

D. then  $x = 2$  could be.

**Global Incorrect Feedback**

The correct answer is:  $(x - 2)$  is not a factor.

## Question 2a of 15 ( 2 Rational Roots Theorem 326096 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between  $(x + 1)$  and the polynomial  $x^2 - x - 2$ ?

	Choice	Feedback
*A.	$(x + 1)$ is a factor.	Correct!
B.	$(x + 1)$ is not a factor.	
C.	It is impossible to tell if $(x + 1)$ is a factor.	
D.	If $(x + 1)$ isn't a factor, then $x = -1$ could be.	

**Global Incorrect Feedback**

The correct answer is:  $(x + 1)$  is a factor.

## Question 2b of 15 ( 2 Rational Roots Theorem 326097 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between  $(x - 5)$  and the polynomial  $2x^2 - 7x - 15$ ?

	Choice	Feedback
*A.	$(x - 5)$ is a factor.	Correct!
B.	$(x - 5)$ is not a factor.	
C.	It is impossible to tell if $(x - 5)$ is a factor.	
D.	If $(x - 5)$ isn't a factor, then $x = 5$ could be.	

**Global Incorrect Feedback**

The correct answer is:  $(x - 5)$  is a factor.

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## Question 2c of 15 ( 2 Rational Roots Theorem 326098 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between  $(x + 2)$  and the polynomial  $3x^2 - x - 14$ ?

	Choice	Feedback
*A.	$(x + 2)$ is a factor.	Correct!
B.	$(x + 2)$ is not a factor.	
C.	It is impossible to tell if $(x + 2)$ is a factor.	

<b>D.</b>	If $(x + 2)$ isn't a factor, then $x = -2$ could be.	
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#### Global Incorrect Feedback

The correct answer is:  $(x + 2)$  is a factor.

## Question 3a of 15 ( 2 Rational Roots Theorem 329435 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 34

**Question:** Given the polynomial below, find  $F(3)$ .

$$F(x) = 2x^3 - 7x + 1$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 34.

## Question 3b of 15 ( 2 Rational Roots Theorem 329441 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank  
**Maximum Score:** 2  
**Correct Answer:** 1  
**Question:** Given the polynomial below, find  $F(-1)$ .

$$F(x) = -x^3 - x^2 + 1$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 1.

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### Question 3c of 15 ( 2 Rational Roots Theorem 329442 )

**Maximum Attempts:** 1  
**Question Type:** Numeric Fill In Blank  
**Maximum Score:** 2  
**Correct Answer:** 35  
**Question:** Given the polynomial below, find  $F(2)$ .

$$F(x) = 5x^3 - 2x^2 + 3$$

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>

  

	<b>Global Incorrect Feedback</b>
	The correct answer is: 35.

## Question 4a of 15 ( 2 Rational Roots Theorem 329436 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 28

**Question:** Given the polynomial below, find  $F(-5)$ .

$$F(x) = x^2 - 2x - 7$$

<b>Attempt</b>	<b>Incorrect Feedback</b>
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: 28.

## Question 4b of 15 ( 2 Rational Roots Theorem 329443 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank  
**Maximum Score:** 2  
**Correct Answer:** 7  
**Question:** Given the polynomial below, find  $F(-9)$ .

$$F(x) = -x^2 - 10x - 2$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 7.

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## Question 4c of 15 ( 2 Rational Roots Theorem 329444 )

**Maximum Attempts:** 1  
**Question Type:** Numeric Fill In Blank  
**Maximum Score:** 2  
**Correct Answer:** 37  
**Question:** Given the polynomial below, find  $F(4)$ .

$$F(x) = 2x^2 - x + 9$$

Attempt	Incorrect Feedback
1st	



	<b>Correct Feedback</b>

  

	<b>Global Incorrect Feedback</b>
	The correct answer is: 37.

## Question 5a of 15 ( 2 Using the Factor Theorem 153939 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between the binomial  $(x - 5)$  and the polynomial  $F(x) = 2x^2 - 3x + 5$ ?

	Choice	Feedback
A.	$(x - 5)$ is a factor.	
*B.	$(x - 5)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x - 5)$ is a factor.	
D.	$(x - 5)$ could be a factor if you chose the right value for $x$ .	

### Global Incorrect Feedback

The correct answer is:  $(x - 5)$  is not a factor.

## Question 5b of 15 ( 2 Using the Factor Theorem 245821 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between the binomial  $(x - 4)$  and the polynomial  $F(x) = 2x^2 - 3x + 4$ ?

	Choice	Feedback
A.	$(x - 4)$ is a factor.	
*B.	$(x - 4)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x - 4)$ is a factor.	
D.	$(x - 4)$ could be a factor if you chose the right value for $x$ .	

**Global Incorrect Feedback**

The correct answer is:  $(x - 4)$  is not a factor.

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## Question 5c of 15 ( 2 Using the Factor Theorem 245822 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between the binomial  $(x - 3)$  and the polynomial  $F(x) = 2x^2 - 3x + 3$ ?

	Choice	Feedback
*A.	$(x - 3)$ is not a factor.	Correct!
B.	$(x - 3)$ is a factor.	

<b>C.</b>	It is impossible to tell if $(x - 3)$ is a factor.	
<b>D.</b>	$(x - 3)$ could be a factor if you chose the right value for $x$ .	

**Global Incorrect Feedback**

The correct answer is:  $(x - 3)$  is not a factor.

## Question 6a of 15 ( 2 Using the Factor Theorem 153940 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between the binomial  $(x - 1)$  and the polynomial  $x^3 - 1$ ?

	Choice	Feedback
<b>*A.</b>	$(x - 1)$ is a factor.	Correct!
<b>B.</b>	$(x - 1)$ is not a factor.	
<b>C.</b>	It is impossible to tell if $(x - 1)$ is a factor.	
<b>D.</b>	$(x - 1)$ cannot be a factor because $x^3 - 1$ is not quadratic.	

**Global Incorrect Feedback**

The correct answer is:  $(x - 1)$  is a factor.

## Question 6b of 15 ( 2 Using the Factor Theorem 245824 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between the binomial  $(x + 1)$  and the polynomial  $x^3 - 2x - 1$ ?

	Choice	Feedback
*A.	$(x + 1)$ is a factor.	Correct!
B.	$(x + 1)$ is not a factor.	
C.	It is impossible to tell if $(x + 1)$ is a factor.	
D.	$(x + 1)$ cannot be a factor because $x^3 + 1$ is not quadratic.	

### Global Incorrect Feedback

The correct answer is:  $(x + 1)$  is a factor.

## Question 6c of 15 ( 2 Using the Factor Theorem 245825 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between the binomial  $(x + 1)$  and the polynomial  $x^3 + 1$ ?

	Choice	Feedback

<b>*A.</b>	$(x + 1)$ is a factor.	Correct!
<b>B.</b>	$(x + 1)$ is not a factor.	
<b>C.</b>	It is impossible to tell if $(x + 1)$ is a factor.	
<b>D.</b>	$(x + 1)$ cannot be a factor because $x^3 + 1$ is not quadratic.	

#### Global Incorrect Feedback

The correct answer is:  $(x + 1)$  is a factor.

## Question 7a of 15 ( 2 Using the Factor Theorem 153941 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between the binomial  $(x^2 - 2x)$  and the polynomial  $3x^3 - 5x + 7$ ?

	Choice	Feedback
<b>A.</b>	$(x^2 - 2x)$ is a factor.	
<b>*B.</b>	$(x^2 - 2x)$ is not a factor.	Correct!
<b>C.</b>	It is impossible to tell if $(x^2 - 2x)$ is a factor.	
<b>D.</b>	$(x^2 - 2x)$ cannot be a factor because it has a squared term and factors can only have terms with $x$ in them.	

#### Global Incorrect Feedback

The correct answer is:  $(x^2 - 2x)$  is not a factor.

## Question 7b of 15 ( 2 Using the Factor Theorem 245828 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between the binomial  $(x^2 - 2x)$  and the polynomial  $3x^3 - x^2 + 4$ ?

	Choice	Feedback
A.	$(x^2 - 2x)$ is a factor.	
*B.	$(x^2 - 2x)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x^2 - 2x)$ is a factor.	
D.	$(x^2 - 2x)$ cannot be a factor because it has a squared term and factors can only have terms with $x$ in them.	

### Global Incorrect Feedback

The correct answer is:  $(x^2 - 2x)$  is not a factor.

## Question 7c of 15 ( 2 Using the Factor Theorem 245829 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between the binomial  $(x^2 - 2x)$  and the polynomial  $2x^3 - x^2 + 2$ ?

	Choice	Feedback
A.	$(x^2 - 2x)$ is a factor.	
*B.	$(x^2 - 2x)$ is not a factor.	Correct!
C.	It is impossible to tell if $(x^2 - 2x)$ is a factor.	
D.	$(x^2 - 2x)$ cannot be a factor because it has a squared term and factors can only have terms with $x$ in them.	

#### Global Incorrect Feedback

The correct answer is:  $(x^2 - 2x)$  is not a factor.

## Question 8a of 15 ( 2 Using the Factor Theorem 153942 )

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following *best* describes the relationship between  $(x + 3)$  and the polynomial  $12x^2 + 43x + 21$ ?

	Choice	Feedback
*A.	$(x + 3)$ is a factor.	Correct!
B.	$(x + 3)$ is not a factor.	
C.	It is impossible to tell if $(x + 3)$ is a factor.	
D.	If $(x + 3)$ isn't a factor, then $x = -3$ could be.	

#### Global Incorrect Feedback

The correct answer is:  $(x + 3)$  is a factor.

### Question 8b of 15 ( 2 Using the Factor Theorem 245830 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between  $(x + 3)$  and the polynomial  $13x^2 + 47x + 24$ ?

	Choice	Feedback
*A.	$(x + 3)$ is a factor.	Correct!
B.	$(x + 3)$ is not a factor.	
C.	It is impossible to tell if $(x + 3)$ is a factor.	
D.	If $(x + 3)$ isn't a factor, then $x = -3$ could be.	

#### Global Incorrect Feedback

The correct answer is:  $(x + 3)$  is a factor.

### Question 8c of 15 ( 2 Using the Factor Theorem 245831 )

**Maximum Attempts:** 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

**Question:** Which of the following *best* describes the relationship between  $(x + 3)$  and the polynomial



$$14x^2 + 47x + 15?$$

	Choice	Feedback
*A.	$(x + 3)$ is a factor.	Correct!
B.	$(x + 3)$ is not a factor.	
C.	It is impossible to tell if $(x + 3)$ is a factor.	
D.	If $(x + 3)$ isn't a factor, then $x = -3$ could be.	

#### Global Incorrect Feedback

The correct answer is:  $(x + 3)$  is a factor.

## Question 9a of 15 ( 3 Using the Remainder Theorem 329437 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 26

**Question:** Given the polynomial below, find  $F(3)$ .

$$F(x) = 3x^3 - 2x^2 - 8x - 13$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: 26.

## Question 9b of 15 ( 3 Using the Remainder Theorem 329445 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 115

**Question:** Given the polynomial below, find  $F(4)$ .

$$F(x) = 3x^3 - 2x^2 - 8x - 13$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 115.

## Question 9c of 15 ( 3 Using the Remainder Theorem 329446 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** -13

**Question:** Given the polynomial below, find  $F(2)$ .

$$F(x) = 3x^3 - 2x^2 - 8x - 13$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: -13.

## Question 10a of 15 ( 3 Using the Remainder Theorem 329438 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 0

**Question:** Given the polynomial below, find  $F(1)$ .

$$F(x) = x^{56} - 5x^2 + 4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: 0.

## Question 10b of 15 ( 3 Using the Remainder Theorem 329447 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 0

**Question:** Given the polynomial below, find  $F(1)$ .

$$F(x) = x^{58} - 6x^2 + 5$$

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: 0.

## Question 10c of 15 ( 3 Using the Remainder Theorem 329448 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 0

**Question:** Given the polynomial below, find  $F(1)$ .

$$F(x) = x^{51} - 7x^2 + 6$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 0.

## Question 11a of 15 ( 3 Using the Remainder Theorem 329439 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 44

**Question:** Given the polynomial below, find  $F(-5)$ .

$$F(x) = x^3 + 4x^2 - 10x + 19$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: 44.

## Question 11b of 15 ( 3 Using the Remainder Theorem 329449 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 37

**Question:** Given the polynomial below, find  $F(-6)$ .

$$F(x) = x^3 + 4x^2 - 15x + 19$$

<b>Attempt</b>	<b>Incorrect Feedback</b>
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: 37.

## Question 11c of 15 ( 3 Using the Remainder Theorem 329450 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** 59

**Question:** Given the polynomial below, find  $F(-4)$ .

$$F(x) = x^3 + 4x^2 - 10x + 19$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 59.

## Question 12a of 15 ( 3 Using the Remainder Theorem 329440 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** -40

**Question:** Given the polynomial below, find  $F(0)$ .

$$F(x) = 5x^2 + 12x - 40$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: -40.

## Question 12b of 15 ( 3 Using the Remainder Theorem 329451 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2

**Correct Answer:** -50

**Question:** Given the polynomial below, find  $F(0)$ .

$$F(x) = 7x^2 + 13x - 50$$

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: -50.

## Question 12c of 15 ( 3 Using the Remainder Theorem 329452 )

**Maximum Attempts:** 1

**Question Type:** Numeric Fill In Blank

**Maximum Score:** 2



**Correct Answer:** -33

**Question:** Given the polynomial below, find  $F(0)$ .

$$F(x) = 6x^2 + 11x - 33$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: -33.

## Question 13a of 15 ( 1 Using the Remainder Theorem 153947 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $F(a)$ ,  $f(a)$

**Question:** According to the Remainder theorem, the remainder of the problem in which a polynomial  $F(x)$  is divided by the binomial  $(x - a)$  equals \_\_\_\_\_.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: $F(a)$ .

## Question 13b of 15 ( 1 Using the Remainder Theorem 245840 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $a, (a)$

**Question:** According to the Remainder theorem, the remainder of the problem in which a polynomial  $F(x)$  is divided by the binomial  $(x - \text{_____})$  equals  $F(a)$ .

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: $a$ .

## Question 13c of 15 ( 1 Using the Remainder Theorem 245841 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $F(a)$ ,  $f(a)$

**Question:** According to the Remainder theorem, the remainder of the problem in which a polynomial  $F(x)$  is divided by the binomial  $(x - a)$  equals \_\_\_\_\_.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $F(a)$ .

## Question 14a of 15 ( 1 Using the Remainder Theorem 153948 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:** factor

**Question:** When dividing a polynomial  $F(x)$  by the binomial  $(x - a)$ , a remainder of 0 tells you that  $(x - a)$  is a \_\_\_\_\_ of the polynomial.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	<b>Global Incorrect Feedback</b>
	The correct answer is: factor.

## Question 14b of 15 ( 1 Using the Remainder Theorem 245842 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:** factor

**Question:** When dividing a polynomial  $F(x)$  by the binomial  $(x - a)$ , a remainder not equal to zero tells you that  $(x - a)$  is not a \_\_\_\_\_ of the polynomial.

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>

	<b>Global Incorrect Feedback</b>
	The correct answer is: factor.

## Question 14c of 15 ( 1 Using the Remainder Theorem 245843 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:** factor

**Question:** When dividing a polynomial  $F(x)$  by the binomial  $(x - a)$ , a remainder of zero tells you that  $(x - a)$  is a \_\_\_\_\_ of the polynomial.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: factor.

## Question 15a of 15 ( 1 Using the Remainder Theorem 153949 )

**Maximum Attempts:** 1

**Question Type:** True-False

**Maximum Score:** 2

**Question:** In order for a root to be considered as a possibility, it must be written in the form  $\frac{p}{q}$ , where  $p$  is a factor of the leading coefficient and  $q$  is a factor of the constant.

	Choice	Feedback
A.	True	
*B.	False	Correct!

**Global Incorrect Feedback**

The correct answer is: False.

### Question 15b of 15 ( 1 Using the Remainder Theorem 245844 )

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

**Question:** In order for a root to be considered as a possibility, it must be written in the form  $\frac{p}{q}$ , where  $q$  is a factor of the leading coefficient and  $p$  is a factor of the constant.

	Choice	Feedback
*A.	True	Correct!
B.	False	

#### Global Incorrect Feedback

The correct answer is: True.

### Question 15c of 15 ( 1 Using the Remainder Theorem 245845 )

Maximum Attempts: 1

Question Type: True-False

Maximum Score: 2

**Question:** In order for a root to be considered as a possibility, it must be written in the form  $\frac{p}{q}$ , where  $q$  is a factor of the leading coefficient and  $p$  is a factor of the constant.

	Choice	Feedback

<b>*A.</b>	True	Correct!
<b>B.</b>	False	

### Global Incorrect Feedback

The correct answer is: True.

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